

README.md



Dataset description

For the CIC dataset(Training dataset), 28 devices were used for the training the machine learning model with 48 features

20 devices were sampled from the US dataset(Test dataset) for the testing the trained machine learning model with the same 48 features from the training dataset.

About The CIC dataset

Training Dataset			
Device #	Device Type	Device Name	Lab
1	Audio	Amazon Echo Dot	CIC
2	Audio	Amazon Echo Spot	CIC
3	Audio	Amazon Echo Studio	CIC
4	Audio	Google Nest Mini	CIC
5	Audio	Sonos one	CIC
6	Camera	Amcrest	CIC
7	Camera	Arlo basestation camera	CIC
8	Camera	Arloq camera	CIC
9	Camera	Borun camera	CIC
10	Camera	Dlink camera	CIC
11	Camera	Heimvision camera	CIC
12	Camera	Home eye camera	CIC
13	Camera	Luohe camera	CIC
14	Camera	Nest camera	CIC
15	Camera	Netatmo camera	CIC
16	Camera	Simcam	CIC
17	Home Automation	Amazon plug	CIC
18	Home Automation	Atomi coffeemaker	CIC
19	Home Automation	Eufy homebase	CIC
20	Home Automation	Globe lamp	CIC
21	Home Automation	Gosund plug	CIC
22	Home Automation	Heimvision lamp	CIC
23	Home Automation	Philips Hue	CIC
24	Home Automation	Ring basestation	CIC
25	Home Automation	Roomba vacuum	CIC
26	Home Automation	Smartboard	CIC
27	Home Automation	Teckin plug	CIC
28	Home Automation	Yutron plug	CIC

Testing Dataset			
Device #	Device Type	Device Name	Lab
1	Audio	Amazon Echo plus	US
2	Audio	Amazon Echo dot	US
3	Audio	Amazon Echo spot	US
4	Camera	Amcrest	US
5	Camera	Cloud camera	US
6	Camera	Lefun camera	US
7	Camera	Luohe camera	US
8	Camera	Wansview camera	US
9	Camera	Yi camera	US
10	Home Automation	T-wemo Plug	US
11	Home Automation	Tp Link bulb	US
12	Home Automation	Bulb 1	US
13	Home Automation	Blink hub	US
14	Home Automation	Insteon hub	US
15	Home Automation	Lightify hub	US
16	Home Automation	Tp Link hub	US
17	Home Automation	Brewer	US
18	Home Automation	iKettle	US
19	Home Automation	Xiaomi cleaner	US
20	Home Automation	Xiaomi rice cooker	US

Based on the categories, the dataset was group according to device type per the respective device. The folder structure is according to the device category and the devices that belongs to that category.

For example;

- CIC Device Type
 - Audio
 - [] Amazon Echo dot
 - [] Amazon Echo spot
 - Camera
 - [] Amcrest Camera
 - [] Luohe
 - HomeAutomation
 - [] Amazon plug
 - [] Philips Hue Bulb